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Paper dispensing device.

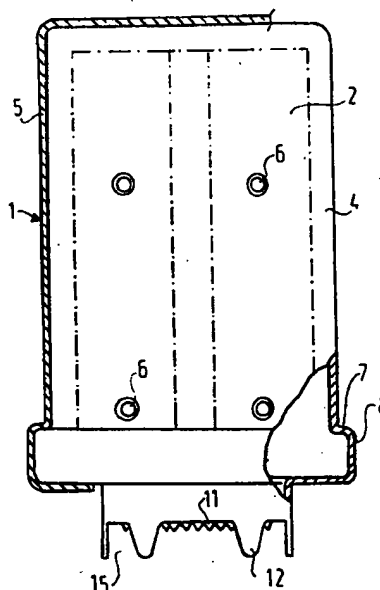
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A paper dispensing device comprising a holder containing a paper web reel and consisting of a support (4) to be fastened to a substrate (3) and a hood (5) to be releasably fixed to said support (4), said support (4) having a central opening (9) for passing the paper web and at the side of said opening at least one ripping edge (10), whilst in the operational state of the device the hood covers the reel on the support, wherein the support has a rim (8) protruding like a console and passing around the side intended for the substrate,

— at the lower end to be fastened to the support the hood (5) has a substantially U-shaped widening (13) for receiving the rim (8) of the support (4),

— in the mounted position the hood grips around the rim of the support by its widened part partly from above, laterally and from below,

— and the hood (5) can be slipped in a selfclamping manner onto the rim (8) of the support (4) and can be fastened thereto in its end position in a resilient manner, in order to simply close and open the dispenser for inserting said paper web reel.


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Paper dispensing device

The invention relates to a paper dispensing device comprising a holder containing a paper web reel and consisting of a support to be fastened to a substrate and a hood to be releasably fixed to said support, said support
5 having a central opening for passing the paper web and at the side of said opening at least one ripping edge, whilst in the operational state of the device the hood covers the reel on the support.

In sanitary systems and hospitals or - in ge-
10 neral - at any place where moistures or dirt has to be swept away it is now preferred to use more or less absorptive paper. The paper may be available in specially folded single pieces or on a reel with a perforated paper web. It is, however, also possible to wind the paper without perforation to
15 form a reel to be arranged in a holder, from which it can be picked up to any desired length.

Such a holder, which is preferably fastened to the wall, has an opening below through which the paper can be drawn out of the holder. At the side of the opening
20 the holder has a ripping edge formed for example by sharp extensions by means of which the paper can be separated. This mode of stocking and dispensing paper is least expensive. Thereto, the holder should also be as simple and as cheap as possible.

25 The invention has for its object to provide a paper dispensing device of simple construction, which can be simply closed and opened and which ensures that the paper reel or the interior of the holder is protected from humidity.

30 According to the invention in a device of the kind set forth this problem is solved in that

- the support has a rim protruding like a console and passing around the side intended for the substrate,

- at the lower end to be fastened to the support the hood has a substantially U-shaped widening for receiving the rim of the support.

- in the mounted position the hood grips around the rim of the support by its widened part partly from above, laterally and from below,

10 - and the hood can be slipped in a self-clamping manner onto the rim of the support and can be fastened thereto in its end position in a resilient manner.

Such a device comprises only the two parts: support and hood. The construction is, therefore, very simple. Since the hood can be slipped in a self-clamping member onto the support, no tools are required for assembling these two parts. Moreover, no additional manipulations are required, since the hood is slipped onto the support and locked in its end position by resiliently snapping elements. 15 After mounting the hood grips around the rim of the support both on the side and from below. Since the integral hood itself is moisture-proof, the support and hence the paper reel below the hood are effectively protected against moisture.

20 An embodiment of the invention is shown in the drawings, in which:

fig. 1 is a front view of the support of a device embodying the invention,

fig. 2 is partly a sectional view of the hood,

30 fig. 3 is a bottom view of the support, fig. 4 shows a section of the support on an enlarged scale.

fig. 5 shows the bottom part of an alternative support on an enlarged scale,

35 fig. 6 shows a detail view of the ripping edge in fig. 5,

fig. 7 is a sectional view along the line VII-VII in fig. 6.

Reference numeral 1 designates a holder for a paper reel 2, a wound, non-perforated paper strip. The reel 2 is indicated in figure 1 by dot-and-dash lines. The holder 1 comprises a support 4 to be fastened to a substrate, preferably a wall 3, and a hood 5, which can be put on the support 4 to cover the reel 2. When the hood 5 is made from transparent material, for example, dark-shaded acryl glass, the reel 2 can be seen from the outside. It can be seen how much paper is present in the reel 2.

10 The support 4 may be secured by means of screws 6 to the wall 3. It has a supporting surface 7 on which the reel 2 can be arranged. The part having the supporting surface 7 and being topmost in the position of use of the support 4 is provided with a console-like protruding rim 15 8, which extends around the side intended to receive the device on the wall 3. The supporting surface 7 has furthermore a central opening 9, through which paper can be drawn from the reel 2 out of the holder 1. The paper is preferably drawn from the middle of the reel 2.

20 At the side of the opening 9 the support 4 is furthermore provided with a ripping edge 10, which is formed in the embodiment shown by sharp extensions 11 lying side by side and preferably being inclined towards the opening 9, as will be apparent from figure 4. At the ripping 25 edge 10 the paper drawn out of the holder 1 can be severed from the endless strip to the desired length.

On the side of the ripping edge 10 remote from the opening 9 a protective strip 12 is protruding substantially at right angles to prevent injury of those who 30 take paper from the holder 1 at the extensions 11 of the ripping edge 10. The strip 12 has discontinuities 15 through which the paper can be drawn out and cut at the ripping edge 10. The ripping edge 10 may, as an alternative, be divided in a plurality of sections; in principle, a section of the ripping 35 edge 10 need then be provided only behind each discontinuity 15 of the strip 12.

The hood 5 is an integral unit and is open at the end to be fastened to the support 4 as well as on

the side contacting the wall 3 in the mounted state. At its open end the hood has a substantially U-shaped widened part 13 by which it can be slipped from the front onto the rim 8 of the support. The widened part 13 and the rim 8 may, for example, have such a conical shape that the hood 5 can be slipped onto the rim in a self-clamping manner so that the rim is firmly enclosed. In the final position, in which the hood 5 is lying on the wall 3, the hood is fixed to the support 4 by resiliently snapping elements. The elements may be extensions 16 provided in the widened part 3 of the hood 5 and engaging depressions 17 of the support 4. It is advantageous to arrange them in covered position so that they can be unlocked by competent persons to charge the holder with a new paper reel 2.

By its U-shaped widened part 13 the hood 5 grips around the rim 8 of the support 4, partly from above by the side serving in addition as a support, completely at the side and; in addition, from below. Consequently, moisture, for example, water can no longer penetrate into the holder 1, provided the hood 5 is not damaged. A release of the hood 5 from the support 4 is prevented by the widened part 13.

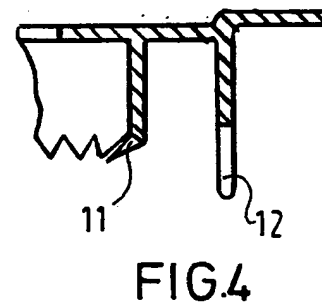
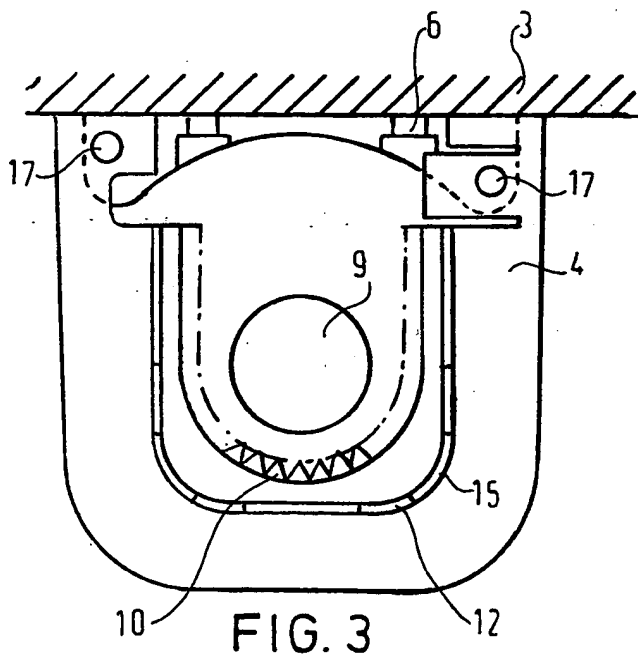
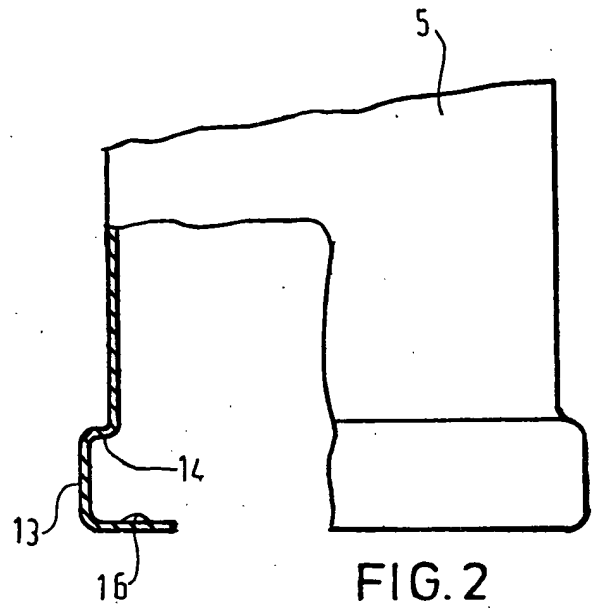
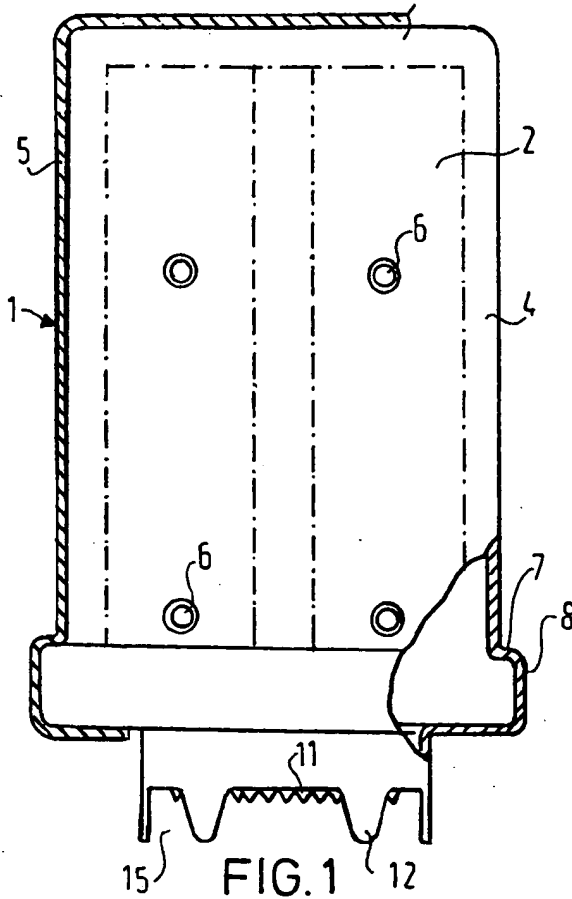
The figs. 5, 6 and 7 show an alternative embodiment of the support structure. In the figures the same reference numerals are used for similar parts. The ripping edge 10' is a bit inclined so minimizing the danger of injury for the user. In this embodiment the protecting strip 12 can be abandoned. The extensions 11 have here different dimensions, which will ameliorate the separation of a paperlength.

The invention is not restricted to the embodiments as described above.

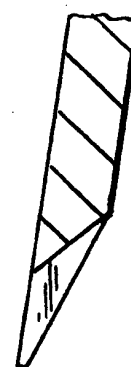
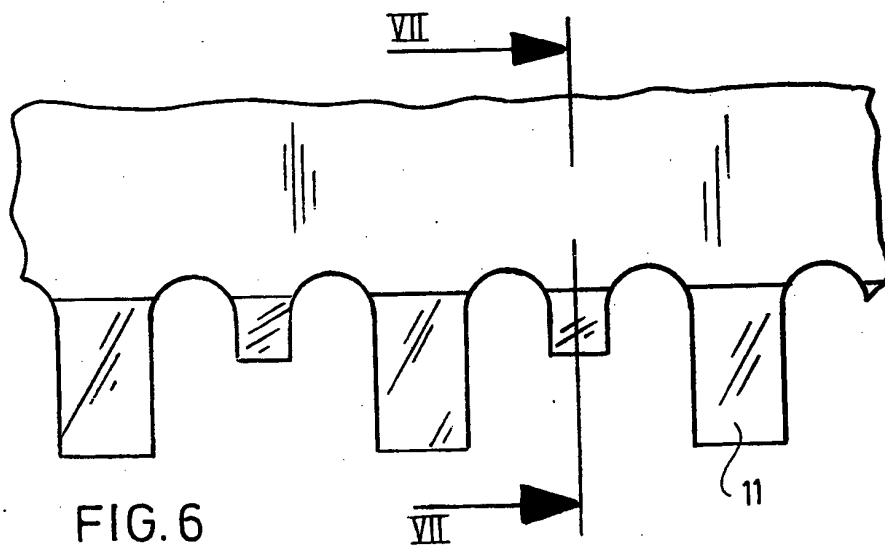
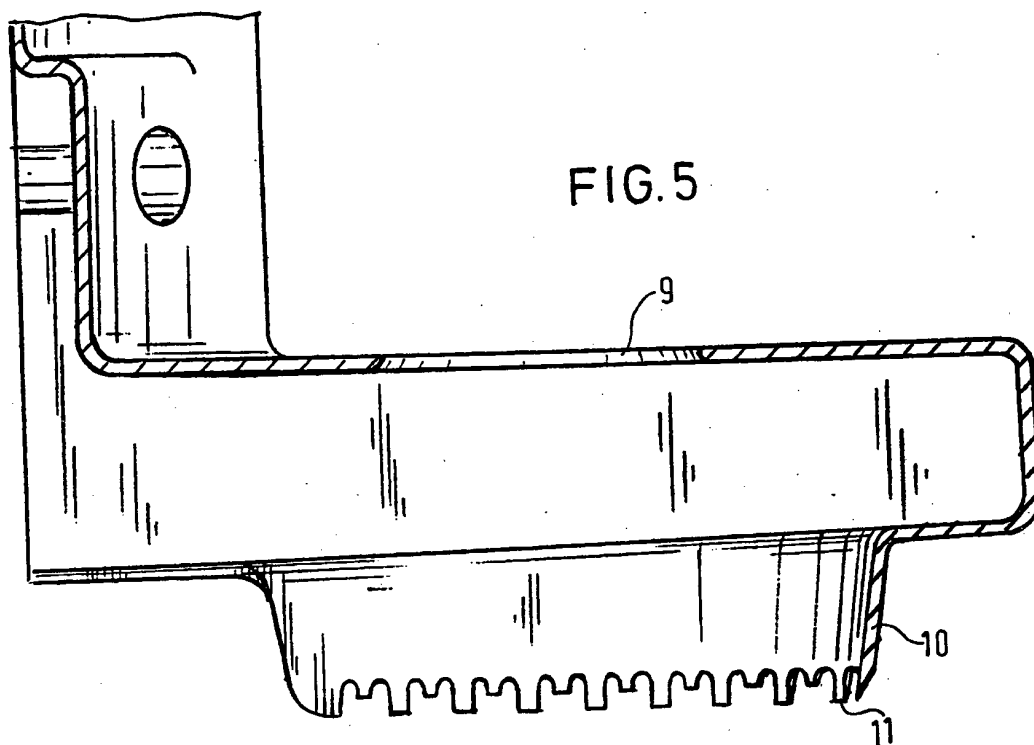
WHAT IS CLAIMED IS:

1. A paper dispensing device comprising a holder for a paper web wound to form a reel, said holder consisting of a support to be fastened to a substrate and a hood to be releasably fastened to said support, which has a central opening for passing the paper web and at the side of said opening at least one ripping edge, said hood being arranged in the position of use of the device so as to cover the reel arranged on the support characterized in that,
- the support (4) has a console-like protruding rim (8) surrounding the side of the device to be fastened to the substrate (3),
 - at the lower end to be fastened to the support (4), the hood (5) has a substantially U-shaped widened part (13) for receiving the rim (8) of the support (4),
 - in the mounted state the hood (5) grips around the rim (8) of the support (4) by its widened part (13) partly from above, from a side and from below,
 - and the hood (5) can be slipped in a self-clamping manner onto the rim (8) of the support (4) and be fixed thereto in the final position in a resiliently snapping manner.
2. A device as claimed in claim 1 characterized in that the ripping edge (10) is formed by sharply tapering extensions (11) arranged side by side.
3. A device as claimed in claim 1 of 2 characterized in that a strip (12) protruding from the support (4) is provided on the side of the ripping edge (10) remote from the opening (9), parallel thereto, said strip having discontinuities (15) leaving free the ripping edge (10).
4. A device as claimed in anyone of claims 1-3, characterized in that the ripping edge (10) is formed by a plurality of relatively separated parts.
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European Patent
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EUROPEAN SEARCH REPORT

0117567

Application number

EP 84 20 0010

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
X	DE-A-2 818 757 (LAY) * Page 3, lines 13-25; figure *	1	A 47 K 10/38
Y		2, 4	
Y	US-A-3 923 223 (LARSSON) * Column 2, lines 10-36; figures 1-3 *	2, 4	
A		3	
A	EP-A-0 068 722 (DEACON) * Page 15, lines 29-35; figures 9, 10 *	1, 3	
X, P	EP-A-0 091 411 (LUNDEN) * Whole abstract *	1-4	<div>TECHNICAL FIELDS SEARCHED (Int. Cl. ³)</div> <div>A 47 K B 65 D</div>
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14-05-1984	Examiner GOLDSMITH H.
<div>CATEGORY OF CITED DOCUMENTS</div> <div> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document </div> <div> T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document </div>			

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